#### FIG. 1

FIG. 2A

5'				GAG						GCT								
			65	TCG		74			83			92			101			110
			119			128			 137			 146			 155			164
	CGC	CAA	CCG	ATC									TGG			AG'I'		
	ልጥር	GAG	173 GAG	GTG	ርጥጥ	182		CTTT	191 GTC		GCA	200 TTG		GAG	209 AGC		GAG	218 CAA
										<del>-</del>	<del>-</del>							
	M	E	E	L	V	Н	D	L	٧	S	A	L	E	Е	S	S	E	Q
	GCT	CGA	227 GGT	GGA	TTT	236 GCT	GAA	ACA	245 GGA	GAC	CAT	254 TCT	CGA	AGT	263 ATA	TCT	TGC	272 CCT
												 S		 S	 I			 P
	Α	R	G	G	F	A										_		
	CTG	AAA	281 CGC	CAG	GCA	290 AGG		AGG	299 AGA		AGA	308 AAA		AGG	317 TCG		AAT	326 GTG
	 L	 K	 R	 Q	 A	 R	 K		 R	 G	 R	 K	 R	 R	 S	 Y	 N	 V
	11	K		Q	n			10		J	1.0					-		
	CAT	CAC	335 CCG	TGG	GAG	344 ACT	GGT	CAC	353 TGC	TTA	AGT	362 GAA	GGC	TCT	371 GAT	TCT	AGT	380 TTA
		 H	 P	 W	 E	 Т	 G	 H	 C	 L	 s	 E	 G	 S	 D	 S	 S	 L
			389			398			407			416			425			434
	GAA	GAA		AGC	AAG		TAT	AGA	GAG	AAT	CAC		AAT	AAT		AAA	GAT	
	E	E	P	s	K	D	Y	R	 E	N	Н	N	N	N	K	K	D	Н
			443		~-~	452				~~1		470		222	479	mar	3.3.0	488
	AGT	GAC	TCT	GAT	GAC	CAA	ATG	11A 	GTA	GCA	AAG		AGG		TCA	TCA	AAC	
	S	D	S	D	D	Q	M	L	V	A	K	R	R	P	s	S	N	L
	AAT	AAT	497 AAT	GTT	CGA	506 GGG		AGA	515 CCT		TGG			TCT	533 GAT		GCT	542 GTG
	 N	 N	 N	 V	 R	 G	 K	 R	 P			н	 E	 S	 D	 F	 A	v
			551			560			569			578			587			596
	GAC	AAT	GTT	GGG	AAT	AGA			CGC	AGG		AGA	AAG				ATG	
	D	N	v	G	N	R	T		R	 R	R	R	 K		K	R	М	A
			605			614			623			632			641			650
	GTA	GAT		CCA	CAG		ATC	TCT			CGG			ACC			CCT	
	V	D	L	P	Q	D	I		N			Т	M	Т	Q	P	P	E
	GGT			GAT	CAG						AGA		TAC	CAG	695 TAT		GAA	704 TTT
	G	C	R	D	Q	D	M	D	s	D	R	A	Y	Q	Y	Q	E	F

## FIG. 2B

ACC	AAG	713 AAC	AAA	GTC	722 AAA	AAA	AGA	731 AAG			740 ATA	ATC	AGA	749 CAA	GGA	CCA	758 AAA
Т	K	N	K	v	K	K	R	К	L	K	I	I	R	Q	G	P	K
ATC	CAA	767 GAT	GAA	GGA	776 GTA	GTT	TTA	785 GAA	AGT	GAG	794 GAA	ACG	AAC	803 CAG	ACC	AAT	812 AAG
I	Q	D	E	G	V	v	L	E	S	E	E	Т	N	Q	т	N	K
GAC	AAA	821 ATG	GAA	TGT	830 GAA	GAG	CAA	839 AAA	GTC	TCA	848 GAT	GAG	CTC	857 ATG	AGT	GAA	866 AGT
מ	K	M	E	С	E	E	Q	K	V	S	D	E	L	M	s	E	S
GAT	TCC	875 AGC	AGT	CTC	884 AGC	AGC	ACT	893 GAT	GCT	GGA	902 TTG	TTT	ACC	911 AAT	GAT	GAG	920 GGA
D	S	S	S	L	s	S	т	D	A	G	L	F	Т	N	D	E	G
AGA	CAA	929 GGT	GAT	GAT	938 GAA	CAG	AGT	947 GAC	TGG	TTC	956 TAC	GAA	AAG	965 GAA	TCA	GGT	974 GGA
R	Q	G	D	D	E	Q	s	D	W	F	Y	E	K	E	s	G	G
GCA	TGT	983 GGT	ATC	ACT	992 GGA			001 CCC	TGG		L010 GAA	AAG		L019 GAT		ACT	1028 GAG
A	C	G	I	Т	G	V	V	P	W	W	Е	K	E	D	P	T	E
CTA		1037 AAA	AAT		L046 CCA	GAT		L055 GTC	TTT		1064 AGT	ATC		L073 ACT	GGT	TCT	1082 TTT
CTA  L			AAT  N			GAT  D			TTT  F			ATC			GGT  G		
L	GAC D	AAA  K 1091	N	GTA V	CCA P L100	D	CCT P	GTC V V	 F	GAA  E	AGT  S L118		TTA	ACT  T 1127	 G	TCT  S	TTT  F 1136
L	GAC D	AAA K K 1091 ATG	N	GTA V	CCA P L100	D	CCT P	GTC V V	 F	GAA  E	AGT  S L118	 I	TTA	ACT  T 1127	 G	TCT	TTT  F 1136
CCC	GAC D CTT L	AAA  K 1091 ATG  M	N TCA	GTA V CAC	CCA P L100 CCA  P	D AGC	CCT P AGA R	GTC  V L109 AGA  R	F GGT  G	GAA E TTC  F	AGT S L118 CAA Q	I GCT  A	TTA L AGA R	ACT T  1127 CTC L	G AGT  S	TCT S CGC	TTT F  1136 CTT L
CCC P	GAC D CTT L	AAA K 1091 ATG  M 1145 ATG	N TCA	GTA V CAC	CCA P L100 CCA  P	AGC S AAT	CCT P AGA R	GTC  V L109 AGA  R	GGT G	GAA E TTC  F	AGT S L118 CAA Q	I GCT  A	TTA L AGA R	ACT T  1127 CTC L	G AGT  S	TCT S CGC R	TTT F  1136 CTT L
CCC P CAT H	GAC D CTT L GGA G CCC	AAA  K 1091 ATG  M 1145 ATG  M	TCA S TCT S CCT	GTA V CAC H TCA S GGC	CCA P L100 CCA P L154 AAG K L208 CCA	AGC S AAT N	CCT P AGA R ATT I GGT	GTC V 1109 AGA R 1163 AAA K 1217 AAC	GGT G AAA AAA	GAA E TTC F TCT S	AGT S L118 CAA Q L172 GGA G L226 ATG	GCT A GGG G GTT	TTA L AGA R ACT T CAT	ACT T 1127 CTC L 1181 CCA P 1235 TTT	AGT S ACT T TCC	TCT S CGC R TCA S CCG	TTT F  1136 CTT L  1190 ATG M
CCC P CAT H	GAC D CTT L GGA G CCC	AAA K 1091 ATG  M 1145 ATG  M	TCA S TCT S CCT	GTA V CAC H TCA S GGC	CCA P 1100 CCA P 1154 AAG K	AGC S  AAT N  GTG	CCT P  AGA R  ATT I  GGT	GTC V V 1109 AGA R 1163 AAA K 1217 AAC	GGT G AAA AAA	GAA E TTC F TCT S	AGT S L118 CAA Q L172 GGA G L226 ATG	GCT A  GGG GTT	TTA L AGA R ACT T CAT	ACT T 1127 CTC L 1181 CCA P 1235 TTT	AGT S ACT T TCC	TCT S CGC R TCA S CCG	TTT F  1136 CTT L  1190 ATG M
CCC P CAT H GTA V	GAC D CTT L GGAA G	AAA K 1091 ATG M 1145 ATG M 1199 ATT I	TCA S TCT S CCT	GTA V CAC H TCA S GGC G	CCA P 1100 CCA P 1154 AAG K 1208 CCA P	AGC S AAT N GTG	P AGA R ATT I GGT G	GTC V 1109 AGA R 1163 AAA K 1217 AAC N	GGT G AAA  Ř	GAA E TTC F TCT S AGA R	AGT S 1118 CAA Q 1172 GGA ATG M 1280 GCT	GCT A GGG GTT V	L AGA ACT T CAT H	ACT T  1127 CTC L  1181 CCA P  1235 TTT F	G AGT S ACT T TCC S	TCT S CGC R TCA S CCG	TTT F 1136 CTT L 1190 ATG M 1244 GAT D 1298
CCC P CAT H GTA V TCT	GAC  CTT  L  GGA  G  CCC  P	AAA K 1091 ATG M 1145 ATG I 1253 CAC	TCA S TCT S CCT P	GTA V CAC H TCA S GGC G GAC	CCA P 1100 CCA P 1154 AAG K 1208 CCA P	AGC S AAT N GTG V TGG	P AGA ATT I GGT G	GTC V 1109 AGA R 1163 AAA K 1217 AAC N 1271 AGC	GGT G AAA AAG K CCT	GAA E TTC F TCT S AGA R	AGT S S 1118 CAA Q 1172 GGA G ATG M 1280 GCT	GCT A GGG GTT V AGG	L AGA R CAT H	ACT T 1127 CTC L 1181 CCA P 1235 TTT F 1289 GAG	AGT S ACT T TCC S CAT	TCT S CGC R TCA S CCG	TTT F  1136 CTT L  1190 ATG M  1244 GAT D
CCC P CAT H GTA V TCT S	GAC D CTT L GGA G CCC P CAT H	AAA K 1091 ATG M 1145 ATG I 1253 CAC H 1307	TCA S TCT S CCT P CAT	GTA V CAC H TCA S GGC G GAC AGA	CCA P 1100 CCA AAG CCA K 1208 CCA P 1262 CAT H 1316	AGC S AAT N GTG V TGG W AAT	P AGA R ATT I GGT G CGA	GTC V 1109 AGA R 1163 AAA K 1217 AAC N 1271 AGC S 1325 GCT	GGT G AAA  AAG K CCT P	GAA E TTC F TCT S AGA R GGG G AGA	AGT S 11188 CAA Q 11772 GGA ATG M 1280 GCT A 11334	GCT A GGG GTT V AGG R	L AGA ACT T ACA T	ACT T 1127 CTC L 1181 CCA P 1235 TTT F 1289 GAG E	G AGT S ACT T TCC S CAT	TCT S CGC R TCA S CCG P GAC D TGT	TTT F  1136 CTT L  1190 ATG M  1244 GAT D  1298 CAG Q

# FIG. 2C

GTG		1361 ACA	GCC		1370 AGG							GGA		L397 TTA	TGC		L406 GGA
v	 R	 T	Α	s	R	Q	T	s		Н	L	G	S	L	C	T	G
GAT		1415 AAA	CGG		L424 AGA	AAA 		.433 GCA	CCT		L442 CCT	GGA	_	L451 ACT	ACT	_	GGA
D	I	K	R	R	R	K	Α	A	P	L	P	G	P	T	Т	Α	G
TTT		1469 GGT	GAA		L478 GCC	CAG		487 ATC	CTA	-	1496 AAT	AAT	_	L505 GGA	AAC		ATG
F	v	G	E	N	А	Q	P	I	L	E	N	N	I	G	N	R	М
CTT		1523 AAT	ATG		1532 TGG	ACG		L541 GGG	TCA		1550 CTT	GGA		1559 GAT	GGC		L568 GGG
L	Q	N	M	G	W	Т	P	G	S	G	L	G	R	D	G	K	G
ATC		1577 GAG	CCA		1586 CAA		ATG					GGA		1613 GGA	CTT		1622 TTT
I	s	E	P	I	Q	A	М	Q	R	P	K	G	L	G	L	G	F
CCT		1631 CCA	AAA		1640 ACT	TCC		L649 ACT	ACT		1658 CCC	AAT		1667 GGA	AAA		1676 GCC
P	L	P	K	s	Т	s	A	Т	T	T	P	N	A	G	K	s	A
TAA  *		1685 AAG 	CAA		1694 AGA 	AAT		1703 TTA	CAG		1712 TTA			1721 ATG	TCC		1730 TGT
	AAA	1739 ATG		ACA		CTT	CTG		TTG	AAG		AAA	TCT	1775 ACA		CCT	
ACA	CAT	1793 CAC	TCT	AGC		CTT	ACT		TAC	AGT			ATA		AGA	GAA	
	TTT	1847 CAT	-	AAT			TGC			GAA		CTC	TGC			ATT	
TTC	AGT		TTC	CAG	1910 CTA	TTT	CTA	1919 GGT	ATA	AAG	1928 AGC	AGC	TCG	1937 TTT	CTC	TTA	
ATT	TTA	1955 GTC	TCA	TGT	1964 GTC	AAT	ACT	1973 TTC	CGA	TGC	1982 TTT	GCT	TAA 	1991 TTC	ATG	TAT	2000 GTG 
	AGT	2009 GCT	GCA	ATG	CCC	AGA	CAA	ACG	TGA	GCA	CAC	CCA	CCA		TCT	AAA	
GAA	TAG	2063 ACA	GGA	AAA 	2072 GAT	TGT	GTT	2081 TTA	TAT	CAT	2090 CCC	TAT	CTA	2099 TTG	TAA	ccc	2108 AAA 
	CCT	2117 ACC	ATC	GCA	TCA	GTG	AAG	TCC	GAA	CAC	ATC	TTT	GTT		AAG	GCT	TGT

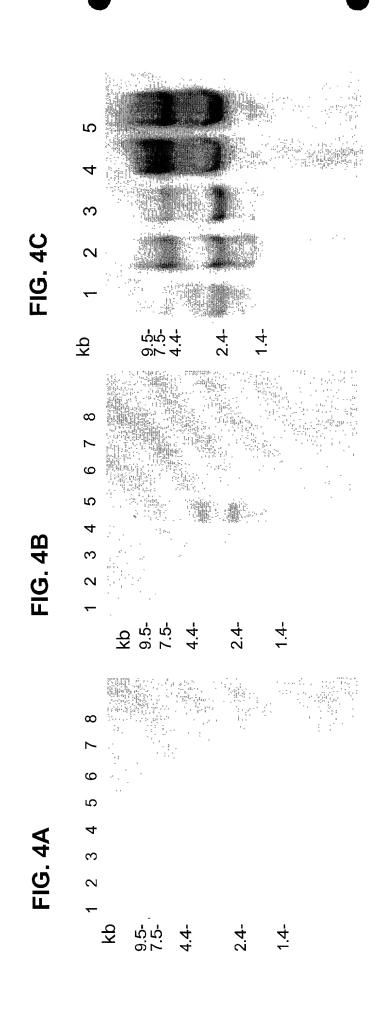
### FIG. 2D

2171 CAA TTT CAT	2180 ATT CCT TGA		2198 TTG GTG AGG	2207 ATT TTC TGA	2216 CAG AGT GAT
	<del></del>				
2225	2234	2243	2252	2261	2270
ACC CAT CAA	TTT TCT ATC	CTT AGA CAA	TGT AGT GTG	AAG TTC ACA	GTT GAC AAA
0050					
2279	2288	2297	2306	2315	2324
			2306 TTG ACA AAA		
CAA CAA TTA	ATG TTT CCC	TTG GAT GTT			

#### FIG. 3A

4	MDELVH	DLA	ASAI	EQ:	rse(	QNK	LG-	-EL	WEE	IAM	SPR	!QQI	₹RÇ	LR	KRI	RGR	KRI	เร-	DFI	HL	λEH
1	MEELVH	DL	/SAI	EES	SSE	QAR	GGF.	AET	GDH	SRS	SISC	PLI	ΚRÇ	AR	KRI	RGR	KRI	RSY	NVE	HPV	<b>VET</b>
	* ****	**	***	*	**	*	*	*					* *	*	* * *	**	***	* *		*	*
61	TCCYSE	ASE	ESSI	DEA	ATK	DCR	EVA	PVT	N	FSI	SDE	TM-	-VA	KR	HP	<i>j</i>	LNA	ΊV	KSK	QHS	SWH
61	GHCLSE	GSI	SSI	LEEL	SK	DYR	ENH	NNN:	KKD	HSI	SDE	OMI	JVA	KR	RPS	SSN	LN	INV	RGK	RPI	HWL
	* **				*	* *	*				***						**	*	*		**
116	ESDSFT	ENZ	APCE	RPLE	RRE	RKV	KRV	TSE	VAA	SLO	OKI	KVS	SDV	SY	ERO	CR	FKS	SAK	KOF	LSE	RWK
	ESDFAV																		-		
	***	*				***					*		_	×-	;	***	~~		*		
1.76	ENTPWT	SSC	3H		(	GLC	ESA	ENR'	TFL	SK	GRK	ERI	4EC	ET	DEC	OKO	GSI	ŒN	MSE	CE	rss
-	EFTKNK															~	•				
1,,	* *					*	-20	*	•	*					*	-2-			***		**
229	VCSSSD	mar	ירים.	DEC	zp()	מחם	EOG	ית עורו	VEG	ECZ	7DGE	ולצידיי	דואכ	.T.D	KW1	מפע	HCS	रक्र	ERN	ςT	250
	L-SSTD				~		~														
233	** *				~		~				JOAC	.01.		*		11(1		*	DIG		*
287	LDKFSD	STE	7T.T.	וקפ	ÞΣO.	RGY	нтр	T.NR	T.DC	ΔΔ	ז אַ מַּנ	ък.									
	FESILT																				
490	LESIP1		 			**		ж *		וכויו	21/1/1	.r.r.									
		,	• •		•		•					•									

### FIG. 3B



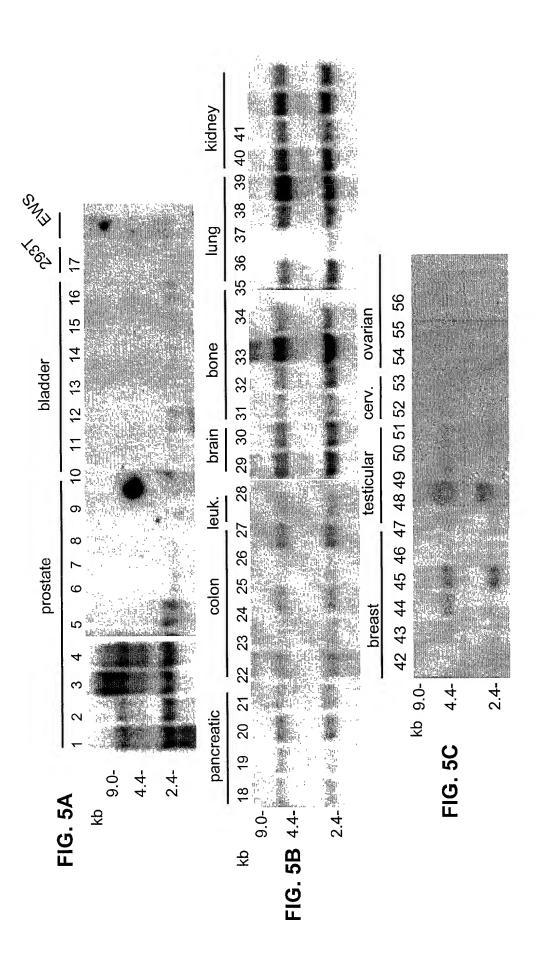
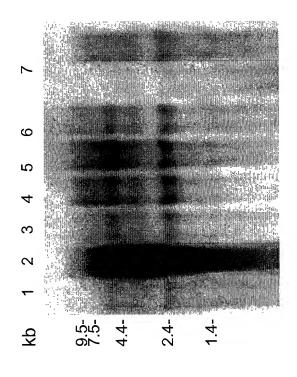


FIG. 6



**FIG. 7** 

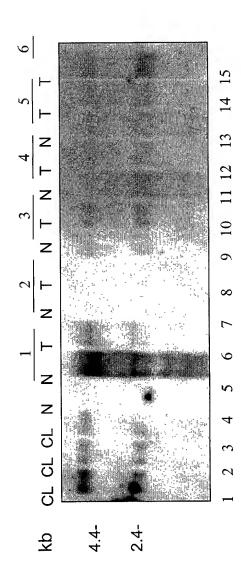
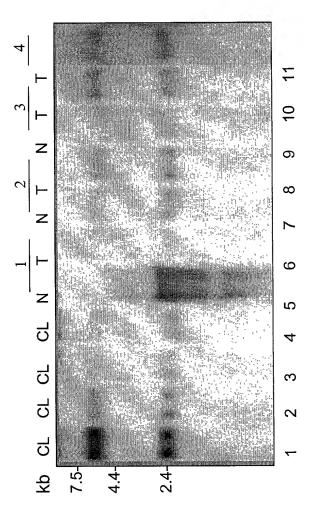
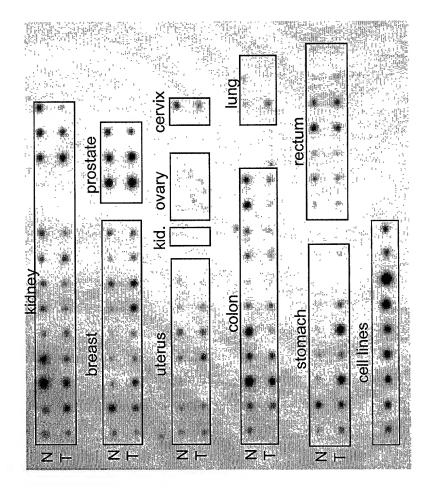
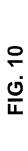


FIG. 8



EG. 9





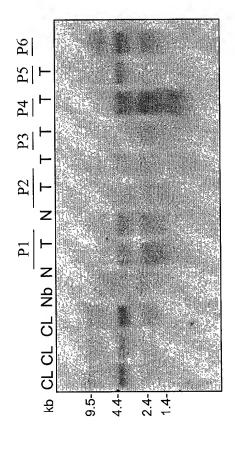


FIG. 11

